INDEX TO AUTHORS

ADAMS, D. H., sex differences in tissue catalase levels, and their relation to the catalase-depressing action of tumours, 748

AIRD, I., WEINBREN, K. and WALTER, L., angiosarcoma in a limb the seat of spontaneous lymphoedema, 424

ALVORD, E. T. and CARDON, S. Z., the inhibition of formation of 3,4–benzpyrene in cigarette smoke, 498

——— see *Cardon, S. Z.*

ANDERSON, A. J., see *Lockey, Eunice.*

ARGUS, MARY F., HEWSON, KATHLEEN and RAY, FRANCIS E., effect of tumors on liver and spleen uptake of radioactive material, 321

ATKIN, N. B. and RICHARDS, B. M., deoxyribonucleic acid in human tumours as measured by microspectrophotometry of Feulgen stain: a comparison of tumours arising at different sites, 769

BADGER, G. M., miscellaneous chemical carcinogens: chemical constitution and carcinogenic activity, 330

BARNES, J. M., see *Magee, P. N.*

BERENBLUM, I., see *Haran, Nechama.*

BIELSCHOWSKY, F., see *Bielschowsky, Marianne.*

BIELSCHOWSKY, MARIANNE, BIELSCHOWSKY, F. and LINDSAY, DIANA, a new strain of mice with a high incidence of mammary cancers and enlargement of the pituitary, 688

BONSER, GEORGIANA M., BRADSHAW, L., CLAYSON, D. B. and JULL, J. W., a further study of the carcinogenic properties of ortho hydroxy-amines and related compounds by bladder implantation in the mouse, 539

——— CLAYSON, D. B. and JULL, J. W., the induction of tumours of the subcutaneous tissues, liver and intestine in the mouse by certain dyestuffs and their intermediates, 653

——— ——— ——— and PYRAH, L. N., the carcinogenic activity of 2-naphthylamine, 533

BOS, C. J., see *Emmelot, P.*

BOSCH, L., VAN VALS, G. H. and EMMELOT, P., the metabolism of neoplastic tissues: demonstration of intermediates and reaction sequences of the hexose monophosphate oxidative pathway, 801.

BOSCH, L., see *van Vals, G. H.*

BRADSHAW, L., see *Bonser, Georgiana M.*

BROMBACHER, P. J., see *Emmelot, P.*

BROMBERG, Y. M. and ERDREICH, M. B., changes in volume of normal erythrocytes incubated with plasma of patients with malignant tumours, 763

BUTLER, J. A. V., JOHNS, E. W., LUCY, J. A. and SIMSON, P., the composition of nucleic acids prepared from rat and mouse tumours, 202

CALCUTT, G., the intracellular metabolism of 3 : 4 benzpyrene. The role of enzymes in the formation of benzpyrene metabolites by liver components, 583

CAMPBELL, J. G., two cases of rhabdomyosarcoma in the fowl, 700

CAMPBELL, J. M. and KREYBERG, L., the degree of air pollution in Norwegian towns, 481

——— and LINDSEY, A. J., polycyclic hydrocarbons extracted from tobacco; the effect upon total quantities found in smoking, 649

CARR, J. G., renal adenocarcinoma induced by fowl leukaemia virus, 379

CARDON, S. Z., ALVORD, E. T., RAND, H. J. and HITCHCOCK, R., 3,4–benzpyrene in the smoke of cigarette paper, tobacco and cigarettes, 485

——— see *Alvord, E. T.*

CHALMERS, J. G., separation of 3,4-benzpyrene metabolites by paper partition chromatography, 787

——— and PULLINGER, B. D., test of some steroid substances for carcinogenic action in mouse bladders, 547

CHESTERMAN, F. C., see *Franks, L. M.*

CLAYSON, D. B., see *Bonser, Georgiana M.*

COHEN, A. and COHEN, L., radiobiology of the C3H mouse mammary carcinoma: increased radiosensitivity of the tumour induced by inoculation of the host with radiation-attenuated isografts, 312

COHEN, L., see *Cohen, A.*

COMMINS, B. T. and LINDSEY, A. J., some phenolic constituents of cigarette smoke, 504

CRABTREE, H. G., the effects of sulphonamido-azo-compounds on azo-carcinogenesis, 129

CUDKOWICZ, G., the polysaccharides of a human carcinoma, 758

DAVIS, R. A., see *Rook, A. J.*
DELORY, G. E., see *Israels, L. G.*

EDINGTON, G. M., malignant disease in the Gold Coast, 595
ELKELES, A., cancer and atherosclerosis, 247
EMMELOT, P., BOS, C. J., and BROMBACHER, P. J., fatty acid oxidation in normal and neoplastic tissues, 188
——— see *Bosch, L.*
——— see *van Vals, G. H.*
EPSTEIN, M. A., the identification of the Rous virus; a morphological and biological study, 33
ERDREICH, M. B., see *Bromberg, Y. M.*

FRANKS, L. M. and CHESTERMAN, F. C., intra-epithelial carcinoma of prostatic urethra, peri-urethral glands and prostatic ducts ("Bowen's disease of urinary epithelium"), 223

GALLUZZI, S. and PAYNE, P. M., brain metastases from primary bronchial carcinoma: a statistical study of 741 necropsies, 408
GHADIALLY, F. N. and WISEMAN, G., the effect of excess dietary methionine on the rate of growth of RD3 sarcoma, 570
GILBERT, J. A. S. and LINDSEY, A. J., polycyclic hydrocarbons in cigarette smoke: the amounts held in stubs and ash, 642
——— ——— polycyclic hydrocarbons in tobacco smoke: pipe smoking experiments, 646
GILLMAN, T., HATHORN, M. and PENN, J., apparent paradoxical effects of lanolin on induction of skin and lung tumours by topically applied methylcholanthrene. A preliminary report, 384
——— ——— ——— actions of cortisone on cutaneous and pulmonary neoplasms induced in mice by cutaneous applications of methylcholanthrene, 394
GLENDENNING, O. M., see *Roe, F. J. C.*
GRENER, CAROL, see *Wynder, E. L.*
GRESHAM, G. A., see *Rook, A. J.*
GUIMARAES, J. P. and LAMERTON, L. F., further experimental observations on the late effects of thorotrast administration, 527
GUTHRIE, J., attempts to produce seminomata in the albino rat by inoculation of hydrocarbons and other carcinogens into normally situated and ectopic testes, 134

HADFIELD, GEOFFREY and YOUNG, J. STRETTON, the mammotrophic potency of human urine, 145
——— ——— the mammotrophic potency of the urine of normal post-menopausal women, 324
HAMER, D. and WOODHOUSE, D. L., biological tests for carcinogenic action of tar from cigarette smoke, 49
HARAN, NECHAMA and BERENBLUM, I., the induction of the initiating phase of skin carcinogenesis in the mouse by oral administration of urethane (ethyl carbamate), 57
HATHORN, M., see *Gillman, T.*
HEATH, J. C., the production of malignant tumours by cobalt in the rat, 668
HEWITT, H. B., the quantitative transplantation of Sarcoma 37 into subcutaneous air pouches in mice, 564
HEWSON, KATHLEEN, see *Argus, Mary F.*
HIGGINSON, J., primary carcinoma of the liver in Africa, 609
HITCHCOCK, R., see *Cardon, S. Z.*
HORNING, E. S., observations on hormone-dependent renal tumours in the golden hamster, 678

ISRAELS, L. G., and DELORY, G. E., serum isomerase in leukemia, 318
IVERSEN, HANS-GEORG, human tumours in cortisone-treated mice, 472

JELLIFFE, A. M. and MACIVER, J. E., desacetylmethylcolchicine in the treatment of myeloid leukaemia, 634
JOHNS, E. W., see *Butler, J. A. V.*
JULL, J. W., see *Bonser, Georgiana M.*

KOLLER, P. C. and VERONESI, U., the effects of a nitrogen mustard derivative of phenylalanine on experimental tumours, 703
KORTEWEG, R., the significance of selection in prospective investigations into an association between smoking and lung cancer, 282
KREYBERG, L., see *Campbell, J. M.*

LAMERTON, L. F., see *Guimaraes, J. P.*
LAPIS, K. and NÉMETH, L., effect of various chemotherapeutic agents on metastasis, 719
LARIONOV, L. F., some biological and clinical results from the investigations of the chloroethylamines as anti-tumour drugs, 26
LASNITZKI, ILSE, the effect of 3–4-benzpyrene on human foetal lung grown *in vitro*, 510

LINDSAY, DIANA, see *Bielschowsky, Marianne.*
LINDSEY, A. J., see *Campbell, J. M.*
——— see *Commins, B. T.*
——— see *Gilbert, J. A. S.*
LIPSCHUTZ, A., see *Mardones, Elvira.*
LOCKEY, EUNICE, ANDERSON, A. J. and MACLAGAN, N. F., urine and serum mucoproteins in cancer and other diseases, 209
LUCAS, R. B., see *Ranger, D.*
LUCY, J. A., see *Butler, J. A. V.*
LUPBERGER, A., see *Wynder, E. L.*

MACIVER, J. E., see *Jelliffe, A. M.*
MCKENZIE, A., duration of symptoms, clinical staging and survival in cancer of certain sites, 401
MCKEOWN, FLORENCE, malignant disease in old age, 251
MACLAGAN, N. F., see *Lockey, Eunice.*
MAGEE, P. N. and BARNES, J. M., the production of malignant primary hepatic tumours in the rat by feeding dimethylnitrosamine, 114
MARDONES, ELVIRA and LIPSCHUTZ, A., on the influence of cortisone on the evolution of tumoural growth in intrasplenic ovarian grafts in two strains of mice, 517
MARKS, JOHN, see *Pillers, E. M. K.*
MARRIAN, D. H. and MAXWELL, D. R., tracer studies of potential radiosensitizing agents. Tetrasodium 2-^{14}C-methyl-1 : 4-naphthohydroquinone diphosphate, 575
——— ——— tracer studies of potential radiosensitizing agents. Tetrasodium 2 - methyl - 3 - ^{82}Br - bromo - 1 : 4 - naphthohydroquinone diphosphate and tetrasodium 2 : 3-dimethyl-5 : 6-di ^{131}I - iodo - 1 : 4 - benzohydroquinone diphosphate, 739
MARSHALL, A. H. E., reactions in lymph nodes draining X-irradiated and carcinogen treated tissues, 307
MAXWELL, D. R., see *Marrian, D. H.*
METCALF, D., a lymphocytosis stimulating factor in the plasma of chronic lymphatic leukaemic patients, 169
——— further studies on the plasma lymphocytosis stimulating factor in chronic lymphatic leukaemia and some other disease states, 431
——— the thymic origin of the plasma lymphocytosis stimulating factor, 442
MILLER, E. W. and PYBUS, F. C., hyperplastic and neoplastic lesions of the glandular stomach and intestine in two inbred strains of mice and their reciprocal hybrids, 89
MITCHELL, J. S., see *Pillers, E. M. K.*
NEISH, W. J. P., polarimetric investigation of sera from normal and cancer rats, 179
NÉMETH, L., see *Lapis, K.*

O'CONNOR, R. J., the proliferative capacity of the lining epithelium of the anal canal in mice, 733
O'NEAL, MARGERY A., see *Reid, E.*

PAXON, T. G., a study of tuberculosis and cancer mortality rates with special reference to lung cancer rates, 623
PAYNE, P. M., see *Galluzzi, S.*
PEACOCK, ANDRÉE, attempts at oral transmission of mammary tumour agent by feeding male organs, 715
——— and PEACOCK, P. R., methylcholanthrene-induced tumours of glandular epithelium in fowls, 110
PEACOCK, P. R., see *Peacock, Andrée.*
PEARSON, A. E. G., the effects of fractionated X-irradiation on the growth of Sarcoma 37 in mice, 674
PENN, J., see *Gillman, T.*
PETERSEN, M., see *Torgersen, O.*
PHILPS, F. R., vacuolated cells in the sputum simulating adenocarcinoma cells, 24
PILLERS, E. M. K., MARKS, JOHN and MITCHELL, J. S., the bone marrow in malignant disease, 458
PULLINGER, B. D., see *Chalmers, J. G.*
PYBUS, F. C., see *Miller, E. W.*
PYRAH, L. N., see *Bonser, Georgiana M.*

RAND, H. J., see *Cardon, S. Z.*
RANGER, D., THACKRAY, A. C. and LUCAS, R. B., mucous gland tumours, 1
RAY, FRANCIS, E., see *Argus, Mary F.*
REID, E., carcinogenic action of 2′-chloro-4-dimethylaminostilbene, in relation to (A) possible effect of growth hormone, and (B) composition of liver cytoplasm, 123
——— and O'NEAL, MARGERY, A., "free" enzymic activity of mitochondrial fractions from liver tumours, 587
RICHARDS, B. M., see *Atkins, N. B.*
RICHARDSON, W. W., medullary carcinoma of the breast, 415
ROE, F. J. C., the development of malignant tumours of mouse skin after "initiating" and "promoting" stimuli. I. The effect of a single application of 9,10-dimethyl-1, 2-benzanthracene (DMBA), with and without subsequent treatment with croton oil, 61

ROE, F. J. C., the development of malignant tumours of mouse skin after "initiating" and "promoting" stimuli. III. The carcinogenic action of croton oil, 72
——— and GLENDENNING, O. M., the carcinogenicity of β-propiolactone for mouse-skin, 357
——— see *Salaman, M. H.*
ROOK, A. J., GRESHAM, G. A. and DAVIS, R. A., squamous epithelioma possibly induced by the therapeutic application of tar, 17

SAFFIOTTI, U. and SHUBIK, P., the role of burning in carcinogenesis, 54
SALAMAN, M. H. and ROE, F. J. C., the development of malignant tumours of mouse skin after "initiating" and "promoting" stimuli. II. The influence of alternate applications of croton oil on malignant tumour- production by repeated applications of dilute 9,10-dimethyl-1,2-benzanthracene (DMBA), 70
——— ——— the development of malignant tumours of mouse skin after "initiating" and "promoting" stimuli. IV. Comparison of the effects of single and divided initiating doses of 9,10 - dimethyl - 1,2 - benzanthrene (DMBA), 79
——— ——— further tests for tumour-initiating activity: N,N-di-(2-chloroethyl) - *p* - aminophenylbutyric acid (CB1348) as an initiator of skin tumour formation in the mouse, 363
SANDERUD, K., squamous epithelial metaplasia in the respiratory tract in uraemics. A preliminary report on a study of post mortem cases, 226
SHANMUGARATNAM, K., primary carcinomas of the liver and biliary tract, 232
SHUBIK, P., see *Saffiotti, U.*
SIMSON, P., see *Butler, J. A. V.*
STOCKS, P., cancer death rates in Japan contrasted with those in England and Wales and Canada, 257

THACKRAY, A. C., see *Ranger, D.*
TORGERSEN, O. and PETERSEN, M., the epidemiology of gastric cancer in Oslo: material, diagnosis and mobility of population. Some sources of error, 292
——— ——— the epidemiology of gastric cancer in Oslo: cartographic analysis of census tracts and mortality rates of sub-standard housing areas, 299
TROMP, S. W., the geographical distribution of cancer of the stomach in the Netherlands (period 1946–1952), 265

VAN VALS, G. H., see *Bosch, L.*
———, BOSCH, L. and EMMELOT, P., the metabolism of neoplastic tissues: carbon dioxide production from specifically ^{14}C-labelled glucose by normal and neoplastic tissues, 792
VERONESI, U., see *Koller, P. C.*

WALLACE, A. CAMERON, the occurrence of metastases in a group of related rat tumours, 724
WALTER, L., see *Aird, I.*
WEILER, E., antigenic differences between normal hamster kidney and stilboestrol induced kidney carcinoma: complement fixation reactions with cytoplasmic particles, 553
——— antigenic differences between normal hamster kidney and stilboestrol induced kidney carcinoma: histological demonstration by means of fluorescing antibodies, 560
WEINBREN, K., see *Aird, I.*
WISEMAN, G., see *Ghadially, F. N.*
WOODHOUSE, D. L., see *Hamer, D.*
WYNDER, E. L., LUPBERGER, A. and GRENER, CAROL, experimental production of cancer with cigarette tar: strain differences, 507

YOUNG, J. STRETTON, see *Hadfield, Geoffrey.*